

SEQUENCE LISTING

<110> Aventis Pharma S.A.

<120> SYSTEM FOR REGULATING IN VIVO THE EXPRESSION OF A TRANSGENE BY CONDITIONAL INHIBITION

<130> 03806.0512

<150> FR 00/10730

<151> 2000-08-18

<150> US 60/239,246

<151> 2000-10-11

<160> 11

<170> PatentIn version 3.0

<210> 1

<211> 688

<212> PRT

<213> Homo sapiens,

<220>

<221> misc

<222> (1)..(688)

<223> Sequence for PPAR-gamma-2-gamma-2, a modified human PPAR-gamma (P
eroxisome Proliferator Activated Receptor-gamma)

<400> 1

Met Gly Glu Thr Leu Gly Asp Ser Pro Ile Asp Pro Glu Ser Asp Ser
1 5 10 15

Phe Thr Asp Thr Leu Ser Ala Asn Ile Ser Gln Glu Met Thr Met Val
Page 1

20					25					30					
Asp	Thr	Glu	Met	Pro	Phe	Trp	Pro	Thr	Asn	Phe	Gly	Ile	Ser	Ser	Val
		35					40					45			
Asp	Leu	Ser	Val	Met	Glu	Asp	His	Ser	His	Ser	Phe	Asp	Ile	Lys	Pro
	50					55					60				
Phe	Thr	Thr	Val	Asp	Phe	Ser	Ser	Ile	Ser	Thr	Pro	His	Tyr	Glu	Asp
	65					70					75				80
Ile	Pro	Phe	Thr	Arg	Thr	Asp	Pro	Val	Val	Ala	Asp	Tyr	Lys	Tyr	Asp
				85					90					95	
Leu	Lys	Leu	Gln	Glu	Tyr	Gln	Ser	Ala	Ile	Lys	Val	Glu	Pro	Ala	Ser
			100					105					110		
Pro	Pro	Tyr	Tyr	Ser	Glu	Lys	Thr	Gln	Leu	Tyr	Asn	Arg	Asn	Lys	Cys
		115					120					125			
Gln	Tyr	Cys	Arg	Phe	Gln	Lys	Cys	Leu	Ala	Val	Gly	Met	Ser	His	Asn
	130					135					140				
Ala	Ile	Arg	Phe	Gly	Arg	Met	Pro	Gln	Ala	Glu	Lys	Glu	Lys	Leu	Leu
	145					150					155				160
Ala	Glu	Ile	Ser	Ser	Asp	Ile	Asp	Gln	Leu	Asn	Pro	Glu	Ser	Ala	Asp
				165					170					175	
Leu	Arg	Ala	Leu	Ala	Lys	His	Leu	Tyr	Asp	Ser	Tyr	Ile	Lys	Ser	Phe
			180					185					190		
Pro	Leu	Thr	Lys	Ala	Lys	Ala	Arg	Ala	Ile	Leu	Thr	Gly	Lys	Thr	Thr
		195					200					205			
Asp	Lys	Ser	Pro	Phe	Val	Ile	Tyr	Asp	Met	Asn	Ser	Leu	Met	Met	Gly
	210					215					220				
Glu	Asp	Lys	Ile	Lys	Phe	Lys	His	Ile	Thr	Pro	Leu	Gln	Glu	Gln	Ser
	225					230					235				240
Lys	Glu	Val	Ala	Ile	Arg	Ile	Phe	Gln	Gly	Cys	Gln	Phe	Arg	Ser	Val
				245					250					255	
Glu	Ala	Val	Gln	Glu	Ile	Thr	Glu	Tyr	Ala	Lys	Ser	Ile	Pro	Gly	Phe
			260					265					270		
Val	Asn	Leu	Asp	Leu	Asn	Asp	Gln	Val	Thr	Leu	Leu	Lys	Tyr	Gly	Val
		275					280					285			
His	Glu	Ile	Ile	Tyr	Thr	Met	Leu	Ala	Ser	Leu	Met	Asn	Lys	Asp	Gly
	290					295					300				
Val	Leu	Ile	Ser	Glu	Gly	Gln	Gly	Phe	Met	Thr	Arg	Glu	Phe	Leu	Lys
	305					310					315				320
Ser	Leu	Arg	Lys	Pro	Phe	Gly	Asp	Phe	Met	Glu	Pro	Lys	Phe	Glu	Phe
				325					330					335	
Ala	Val	Lys	Phe	Asn	Ala	Leu	Glu	Leu	Asp	Asp	Ser	Asp	Leu	Ala	Ile
			340					345					350		
Phe	Ile	Ala	Val	Ile	Ile	Leu	Ser	Gly	Asp	Arg	Pro	Gly	Leu	Leu	Asn
		355					360					365			

Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu Leu Gln Ala Leu Glu
370 375 380
Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser Gln Leu Phe Ala Lys
385 390 395 400
Leu Leu Gln Lys Met Thr Asp Leu Arg Gln Ile Val Thr Glu His Val
405 410 415
Gln Leu Leu Gln Val Ile Lys Lys Thr Glu Thr Asp Met Ser Leu His
420 425 430
Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr Ala Trp Ala Ile Leu
435 440 445
Thr Gly Lys Thr Thr Asp Lys Ser Pro Phe Val Ile Tyr Asp Met Asn
450 455 460
Ser Leu Met Met Gly Glu Asp Lys Ile Lys Phe Lys His Ile Thr Pro
465 470 475 480
Leu Gln Glu Gln Ser Lys Glu Val Ala Ile Arg Ile Phe Gln Gly Cys
485 490 495
Gln Phe Arg Ser Val Glu Ala Val Gln Glu Ile Thr Glu Tyr Ala Lys
500 505 510
Ser Ile Pro Gly Phe Val Asn Leu Asp Leu Asn Asp Gln Val Thr Leu
515 520 525
Leu Lys Tyr Gly Val His Glu Ile Ile Tyr Thr Met Leu Ala Ser Leu
530 535 540
Met Asn Lys Asp Gly Val Leu Ile Ser Glu Gly Gln Gly Phe Met Thr
545 550 555 560
Arg Glu Phe Leu Lys Ser Leu Arg Lys Pro Phe Gly Asp Phe Met Glu
565 570 575
Pro Lys Phe Glu Phe Ala Val Lys Phe Asn Ala Leu Glu Leu Asp Asp
580 585 590
Ser Asp Leu Ala Ile Phe Ile Ala Val Ile Ile Leu Ser Gly Asp Arg
595 600 605
Pro Gly Leu Leu Asn Val Lys Pro Ile Glu Asp Ile Gln Asp Asn Leu
610 615 620
Leu Gln Ala Leu Glu Leu Gln Leu Lys Leu Asn His Pro Glu Ser Ser
625 630 635 640
Gln Leu Phe Ala Lys Leu Leu Gln Lys Met Thr Asp Leu Arg Gln Ile
645 650 655
Val Thr Glu His Val Gln Leu Leu Gln Val Ile Lys Lys Thr Glu Thr
660 665 670
Asp Met Ser Leu His Pro Leu Leu Gln Glu Ile Tyr Lys Asp Leu Tyr
675 680 685

<210> 2

<211> 19

<212> DNA

<213> Artificial Sequence

<400> 2

tcaaccttta ccctggtag

19

<210> 3

<211> 13

<212> DNA

<213> Artificial Sequence

<400> 3

aggtcaaagg tca

13

<210> 4

<211> 30

<212> DNA

<213> Artificial primer

<400> 4

atgcatcgat ggccgcttcg agcagacatg

30

<210> 5

<211> 39

<212> DNA

<213> Artificial primer

<400> 5

atgcgtcgac tctagccgat ttaccacat ttgtagagg

39

<210> 6

<211> 33

<212> DNA

<213> Artificial primer

<400> 6

cgagcatgct gctgctgctg ctgctgctgg gcc 33

<210> 7

<211> 33

<212> DNA

<213> Artificial primer

<400> 7
gggtctagat taacccgggt gcgcggcgtc ggt 33

<210> 8

<211> 20

<212> DNA

<213> Artificial primer

<400> 8
cgatcatggt cgacgacgcc 20

<210> 9

<211> 20

<212> DNA

<213> Artificial primer

<400> 9
ccaggctcgca ggcggtgtag 20

<210> 10

<211> 23

<212> RNA

<213> Artificial sequence, aptamer

<400> 10
ggccuggggcg agaaguuuag gcc 23

<210> 11

<211> 72

<212> RNA

•

A